



SEQUENCE LISTING

5 GENERAL INFORMATION:

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(120) TITLE OF THE INVENTION:

(130) FILE REFERENCE:

- 15 (A) Medium type: Diskette
(B) Computer: IBM compatible
(C) Operating system: Windows 98
(D) Software: Word 6.0

20 (150) Earlier patent application:

- (A) Application number: NO 19992786
(B) Filing date: 08-JUN-1999

25 (160) NUMBER OF SEQUENCE ID NOS: 2

(210) INFORMATION FOR SEQ ID NO: 1

(i) Sequence characteristics:

- 5 (A) Length: .. amino acid residues
(B) Type: amino acid
(D) Topology: single

(xi) Sequence description: SEQ ID NO: 1

10	Glu	Phe	Lys	Phe	Leu	Pro	Pro	Pro	Gly	Tyr	
	1			5						10	
	Ala	Pro	Cys	His	Glu	Ala	Val	Leu	Pro	Arg	
					15					20	
	Glu	Arg	Leu	Arg	Leu	Glu	Pro	Ile	Lys	Glu	
15					25					30	
	Tyr	Arg	Arg	Glu	Gly	Pro	Arg	Gly	Pro	His	
					35					40	
	Leu	Val	Gly	Pro	Ser	Arg	Cys	Leu	Ser	His	
					45					50	
20	Thr	Asp	Phe	Val	Pro	Cys	Pro	Val	Asp	Thr	
					55					60	
	Val	Gln	Ile	Val	Leu	Pro	Pro	His	Leu	Glu	
					65					70	
	Arg	Ile	Arg	Glu	Lys	Leu	Ala	Glu	Asn	Ile	
25					75					80	
	His	Glu	Leu	Trp	Ala	Leu	Thr	Arg	Ile	Glu	
					85					90	
	Gln	Gly	Trp	Thr	Tyr	Gly	Pro	Val	Arg	Asp	
					95					100	
30	Asp	Asn	Lys	Arg	Leu	His	Pro	Cys	Leu	Val	
					105					110	
	Asn	Phe	His	Ser	Leu	Pro	Glu	Pro	Glu	Arg	
					115					120	
	Asn	Tyr	Asn	Leu	Gln	Met	Ser	Gly	Glu	Thr	
35					125					130	
	Leu	Lys	Thr	Leu	Leu	Ala	Leu	Gly	Cys	His	
					135					140	
	Val	Gly	Met	Ala	Asp	Glu	Lys	Ala	Glu	Asp	
					145					150	
40	Asn	Leu	Lys	Lys	Thr	Lys	Leu	Pro	Lys	Thr	
					155					160	
	Tyr	Met	Met	Ser	Asn	Gly	Tyr	Lys	Pro	Ala	
					165					170	
	Pro	Leu	Asp	Leu	Ser	His	Val	Arg	Leu	Thr	
45					175					180	
	Pro	Ala	Gln	Thr	Thr	Leu	Val	Asp	Arg	Leu	
					185					190	
	Ala	Glu	Asn	Gly	His	Asn	Val	Trp	Ala	Arg	
					195					200	
50	Asp	Arg	Val	Ala	Gln	Gly	Trp	Ser	Tyr	Ser	

	205	210
	Ala Val Gln Asp Ile Pro Ala Arg Arg Asn	
	215	220
	Pro Arg Leu Val Pro Tyr Arg Leu Leu Asp	
5	225	230
	Glu Ala Thr Lys Arg Ser Asn Arg Asp Ser	
	235	240
	Leu Cys Gln Ala Val Arg Thr Leu Leu Gly	
	245	250
10	Tyr Gly Tyr Asn Ile Glu Pro Pro Asp Gln	
	255	260
	Glu Pro Ser Gln Val Glu Asn Gln Ser Arg	
	265	270
	Trp Asp Arg Val Arg Ile Phe Arg Ala Glu	
15	275	280
	Lys Ser Tyr Thr Val Gln Ser Gly Arg Trp	
	285	290
	Tyr Phe Glu Phe Glu Ala Val Thr Thr Gly	
	295	300
20	Glu Met Arg Val Gly Trp Ala Arg Pro Glu	
	205	310
	Leu Arg Pro Asp Val Glu Leu Gly Ala Asp	
	315	320
	Glu Leu Ala Tyr Val Phe Asn Gly His Arg	
25	325	330
	Gly Gln Arg Trp His Leu Gly Ser Glu Pro	
	335	340
	Phe Gly Arg Pro Trp Gln Ser Gly Asp Val	
	345	350
30	Val Gly Cys Met Ile Asp Leu Thr Glu Asn	
	355	360
	Thr Ile Ile Phe Thr Leu Asn Gly Glu Val	
	365	370
	Leu Met Ser Asp	

(210) INFORMATION FOR SEQ ID NO: 2

(i) Sequence characteristics:

- 5 (A) Length: .. amino acid residues
(B) Type: amino acid
(D) Topology: single

(xi) Sequence description: SEQ ID NO: 2

10 Arg Gly Arg Ser Leu Thr Lys Ala Gln Arg
1 5 10
Asp Val Ile Glu Asp Cys Leu Met Ala Leu
15 15 20
Cys Arg Tyr Ile Arg Pro Ser Met Leu Gln
25 25 30
His Leu Leu Arg Arg Leu Val Phe Asp Val
35 35 40
Pro Ile Leu Asn Glu Phe Ala Lys Met Pro
45 45 50
20 Leu Lys Leu Leu Thr Asn His Tyr Glu Arg
55 55 60
Cys Trp Lys Tyr Tyr Cys Leu Pro Thr Gly
65 65 70
Trp Ala Asn Phe Gly Val Thr Ser Glu Glu
75 75 80
Glu Leu His Leu Thr Arg Lys Leu Phe Trp
85 85 90
Gly Ile Phe Asp Ser Leu Ala His Lys Lys
95 95 100
30 Tyr Asp Gln Glu Leu Tyr Arg Met Ala Met
105 105 110
Pro Cys Leu Cys Ala Ile Ala Gly Ala Leu
115 115 120
Pro Pro Asp Tyr Val Asp Ala Ser Tyr Ser
125 125 130
35 Ser Lys Ala Glu Lys Lys Ala Thr Val Asp
135 135 140
Ala Glu Gly Asn Phe Asp Pro Arg Pro Val
145 145 150
40 Glu Thr Leu Asn Val Ile Ile Pro Glu Lys
155 155 160
Leu Asp Ser Phe Ile Asn Lys Phe Ala Glu
165 165 170
Tyr Thr His Glu Lys Trp Ala Phe Asp Lys
175 175 180
45 Ile Gln Asn Asn Trp Ser Tyr Gly Glu Asn
185 185 190
Val Asp Glu Glu Leu Lys Thr His Pro Met
195 195 200
50 Leu Arg Pro Tyr Lys Thr Phe Ser Glu Lys

	205	210
	Asp Lys Glu Ile Tyr Arg Trp Pro Ile Lys	
	215	220
	Glu Ser Leu Lys Ala Met Ile Ala Trp Glu	
5	225	230
	Trp Thr Ile Glu Lys Ala Arg Glu Gly Glu	
	235	240
	Glu Glu Arg Thr Glu Lys Lys Lys Thr Arg	
	245	250
10	Lys Ile Ser Gln Thr Ala Gln Thr Tyr Asp	
	255	260
	Pro Arg Glu Gly Tyr Asn Pro Gln Pro Pro	
	265	270
	Asp Leu Ser Gly Val Thr Leu Ser Arg Glu	
15	275	280
	Leu Gln Ala Met Ala Glu Gln Leu Ala Glu	
	285	290
	Asn Tyr His Asn Thr Trp Gly Arg Lys Lys	
	295	300
20	Lys Gln Glu Leu Glu Ala Lys Gly Gly	
	305	310
	Thr His Pro Leu Leu Val Pro Tyr Asp Thr	
	315	320
	Leu Thr Ala Lys Glu Lys Ala Arg Asp Arg	
25	325	330
	Glu Lys Ala Gln Glu Leu Leu Lys Phe Leu	
	335	340
	Gln Met Asn Gly Tyr Ala Val Thr	
	345	348